



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 151270

TO: Janet Epps-Ford
Location: rem/2c05/2c18
Art Unit: 1635

April 29, 2005

Case Serial Number: 10/086062

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

04/29/05

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151270

MAY

From: Epps-Ford, Janet
Sent: Wednesday, April 20, 2005 5:14 PM
To: STIC-Biotech/ChemLib
Subject: Sequence search.

Application 10/086,062

Please search SEQ ID NO: 4 in all pending and published nucleic acid databases.

Thanks,
Janet L. Epps-Ford, Ph.D.
Art Unit 1635
Mailbox: Remsen 2C18
Office: Remsen 2C05
Phone: 571-272-0757
Fax: 571-273-0757

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2-
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	COMMENT	CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
1 (bases 1 to 595)	Waterson,N., Ritter,B., Kohn,S., Swaller,T., Behymer,K., Hillier,L., Wilson,R. and Waterson,R.	AUTHORS	requests: clonerequest@sanger.ac.uk
Woesner,J., Tan,F., Marra,M., Kuwaba,T., Yandell,M., Martin,J., March,G., Bowles,L., Wyllie,T., Boers,Y., Steptoe,M., Theising,B., Geisel,S., Allen,M., Underwood,K., Chappell,J., Person,B., Gibbons,M., Harvey,N., Pape,D., Chamberlain,A., Morales,R., Schurk,R., Ritter,B., Kohn,S., Swaller,T., Behymer,K., Hillier,L., Wilson,R. and Waterson,R.	JOURNAL	On Jul 28, 2000 this sequence was replaced gi:9501151.	
Full Clone Sequencing of the Longest Available Member from Each Unique Cluster	COMMENT	During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.	
Unpublished	REFERENCE	The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:	EMBL; SW; SWISSPROT; TR; TREMBL; WP; WORMPEP; Information
Waterson,N.	AUTHORS	Em: EMBL; Sw: SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information	
Direct Submission	JOURNAL	Em: EMBL; Sw: SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information	
Submitted (24-AUG-1998)	COMMENT	University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA	
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA	SUBMITTED BY:	Department of Genetics Washington University St. Louis MO 63108, USA http://genome.wustl.edu/gsc mailto:est@watson.wustl.edu	
NOTICE: This sequence represents the full insert of this cDNA. No attempt has been made to verify whether this corresponds to the full-length of the original mRNA from which it was derived. We have tried to obtain double-stranded, or double chemistry sequence across the entire clone, but potentially, there are areas in the consensus sequence where this level of coverage was not achieved. Nevertheless, we are confident of the accuracy of this sequence as all regions of low quality, as defined by PIRAP [P. Green, in preparation], were visually inspected and edited accordingly. The consensus quality values for this sequence have been submitted separately.	FEATURES	Location/Qualifiers	on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C.elegans/wormpep This sequence is the entire insert of clone RP1-250B11. This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated repeat sequence elements. Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key. This sequence was generated from part of bacterial clone contigs of human chromosome 10, constructed by the Sanger Centre Chromosome 10 Mapping Group. Further information can be found at http://www.sanger.ac.uk/HGP/Chr10
RP1-250B11 is from the library RPCI-1 constructed by the group of Piefer de Jong. For further details see http://www.chori.org/bacpac/home.htm	source	VECTOR: PCYPAC2	
REPEAT REGION	FEATURES	Location/Qualifiers	
repeat_region	source	1.. .98348	
repeat_region	source	/organism="Homo sapiens"	
repeat_region	source	/mol_type="genomic DNA"	
repeat_region	source	/db_xref="taxon:9606"	
repeat_region	source	/clone="IMAGE:201721"	
repeat_region	source	/clone="Soares_fetal_liver_spleen_INFLS"	
repeat_region	source	9..338	
repeat_region	source	/rpt_family="L2"	
ORIGIN	FEATURES	source	
Query Match	source	1.. .34	
Best Local Similarity	source	/note="Single clone region. Reads derived from clone PCR."Assembly consistent with restriction digest."	
Matches	source	24.. .2165	
QY	source	/note="AluXX repeat: matches 1.. .308 of consensus"	
Db	source	3087.. .3267	
RESULT 3	source	/note="MEB39b repeat: matches 355.. .546 of consensus"	
ALL36103	source	3268.. .3606	
LOCUS	source	/note="MEB39 repeat: matches 13.. .380 of consensus"	
DEFINITION	source	/note="L2 repeat: matches 2435.. .2705 of consensus"	
ACCESSION	source	6106.. .6337	
VERSION	source	/note="L2 repeat: matches 2435.. .2705 of consensus"	
KEYWORDS	source	6334.. .6662	
HTG	source	/note="MEB39 repeat: matches 355.. .546 of consensus"	
SOURCE	source	/note="AluXX repeat: matches 1.. .298 of consensus"	
ORGANISM	source	/note="match: GSS: Em:AQ03443"	
Homo sapiens	source	/note="match: GSS: Em:AO4393"	
Homo sapiens	source	/note="match: GSS: Em:AO264393"	
Homo sapiens	source	8802.. .9234	
Homo sapiens	source	/note="match: GSS: Em:AO150662"	
Homo sapiens	source	9268.. .9556	
Homo sapiens	source	/note="match: STS: Em:G28019"	
Homo sapiens	source	11809.. .12092	
Homo sapiens	source	/note="AluXX repeat: matches 1.. .284 of consensus"	
Homo sapiens	source	12205.. .12722	
Homo sapiens	source	/note="L1ME repeat: matches 5285.. .5811 of consensus"	
Homo sapiens	source	14113.. .14171	
Homo sapiens	source	/note="L2 repeat: matches 2692.. .2750 of consensus"	
Homo sapiens	source	14548.. .14846	
Homo sapiens	source	/note="AluY repeat: matches 1.. .299 of consensus"	
Homo sapiens	source	15883.. .16169	
Homo sapiens	source	/note="AluX repeat: matches 1.. .287 of consensus"	
Homo sapiens	source	17146.. .18557	
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Buteraria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	/note="MEB32A repeat: matches 1.. .1755 of consensus"	
1 (bases 1 to 98348)	AUTHORS	/note="MEB32A repeat: matches 1.. .1713	
Phillimore,B.	TITLE	/note="MIR repeat: matches 6.. .160 of consensus"	
Submitted (04-JAN-2001) Sanger Centre, Hinxton, Cambridgeshire, UK	JOURNAL	/note="MER63 repeat: matches 590.. .1061 of consensus"	

repeat_region 1984..19519 /note="FLAM C repeat: matches 3. .137 of consensus"
repeat_region 19713..19828 /note="MIR repeat: matches 463. .577 of consensus"
repeat_region 19826..20117 /note="MER63 repeat: matches 2. .307 of consensus"
repeat_region 20325..20391 /note="MIR repeat: matches 88. .156 of consensus"
repeat_region 20440..20701 /note="MIR repeat: matches 2. .248 of consensus"
repeat_region 22221..22631 /note="match: STS: Em:HSJ10C4"
repeat_region 25725..26180 /note="match: GSS: Em:AQ211002"
repeat_region 25738..25978 /note="match: GSS: Em:AQ823705"
repeat_region 25548..27067 /note="match: GSS: Em:AQ795605"
repeat_region 28724..28952 /note="match: GSS: Em:B87793"
repeat_region 28954..2950 complement(25565..30037)
repeat_region 30073..30670 /note="match: GSS: Em:AQ155973"
repeat_region 32930..32949 /note="match: GSS: Em:AQ195052"
repeat_region 32930..32949 /note="match: GSS: Em:AQ099305"
repeat_region 32930..33368 complement(31752..32121)
repeat_region 34554..34583 /note="match: GSS: Em:AQ424293"
repeat_region 35059..35135 /note="15 copies 2 mer ca 100% conserved"
repeat_region 36692..36800 /note="MIR repeat: matches 2417. .2500 of consensus"
repeat_region 36692..36800 /note="match: GSS: Em:B55923"
repeat_region 40461..40765 complement(35777..36102)
repeat_region 41312..41502 /note="match: GSS: Em:AQ223744"
repeat_region 41785..41840 /note="MIR repeat: matches 8. .192 of consensus"
repeat_region 43022..43334 /note="28 copies 2 mer tg 85% conserved"
repeat_region 45284..45621 /note="LIP repeat: matches 3. .312 of consensus"
repeat_region 45284..45621 /note="match: GSS: Em:AQ540223"
repeat_region 45284..45621 /note="match: GSS: Em:AQ33658"
repeat_region 45077..45157 /note="MER57-internal repeat: matches 7151. .7230 of
consensus"
repeat_region 45158..45304 /note="LIP repeat: matches 5050. .5197 of consensus"
repeat_region 45284..45621 /note="LIP repeat: matches 5476. .5812 of consensus"
repeat_region 45284..45621 /note="match: GSS: Em:AQ832143"
repeat_region 48564..48709 /note="LIP repeat: matches 2596. .2749 of consensus"
repeat_region 48720..49082 /note="THE1B repeat: matches 1. .364 of consensus"
repeat_region 49176..49629 /note="MLT1D repeat: matches 1. .502 of consensus"

Query	Match	Best Local Similarity	Score	DB	Pred.	No.	Mismatches	Length	Indels	Gaps
Db	62965 CTGAGCCCTCTCGCTGAGACTCTCT	68.0%	1	CTGGACCCCTCTGACTCGAGAGTCGCT	80.0%	2e+02;	0	30	98348	0;

RESULT 4
AC012048 AC012048 Homo sapiens chromosome 10 clone RP1-4N22, complete sequence.
LOCUS AC012048 DEFINITION Homo sapiens chromosome 10 clone RP1-4N22, complete sequence.
ACCESSION AC012048
VERSION AC012048.11
KEYWORDS GI:1974964
HRG
SOURCE Human Genome Project
ORGANISM Homo Sapiens (human)

REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS 1 (bases 1 to 178955)
TITLE Genome Therapeutics Corporation Sequencing Center: Human Genome
SEQUENCE DATA Unpublished
2 (bases 1 to 178955)
REFERENCE Smith, D.R.
AUTHORS Direct Submission
TITLE Submitted (19-OCT-1999) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 3 (bases 1 to 178955)
AUTHORS Smith, D.R.

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Mammalia; Eutheria; Primates; Cetartiodactyla; Hominoidea; Homo

AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.

JOURNAL Unpublished

REFERENCE 1 (bases 1 to 156165)

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Baldwin,J., Bouknight,B., Brown,A., Burkett,G., Castle,A., Boguslavskiy,L., Choepe,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., DeArellano,K., Dewar,K., Domino,M., Doyle,M., Fenster,J., Ferreira,P., FitzHugh,W., Forrest,C., Gage,D., Galagan,J., Gardyna,S., Grant,G., Hagos,B., Heaford,A., Horton,L., Howland,J.C., Johnson,R., Jones,C., Kann,J., Karatza,A., Klein,J., Landers,T., Liehoocky,J., Levine,R., Lieu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K., McPheebers,R., Meldrum,J., Menes,L., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., Oliver,T.M., Peterson,K., Pierre,N., Pisani,C., Pollar,V., Raymond,C., Riley,R., Rothman,D., Roy,A., Santos,R., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., Teslaye,S., Theodore,J., Tirrell,A., Vassiliev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.

TITLE Direct Submission

JOURNAL Submitted (16-JAN-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT On Apr 1, 2000 this sequence version replaced gi:6/21267.
All repeats were identified using RepeatMasker:
Smit,A.F.A. & Green,P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

FEATURES source

Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: <http://www-seq.wi.mit.edu>
Contact: sequence@genome.wi.mit.edu

Center project name: I51169
Center clone name: I51169

----- Summary Statistics -----

Sequencing vector: M13; M77815; 100% of reads
Chemistry: dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.96031
Consensus quality: 145142 bases at least Q40
Consensus quality: 150109 bases at least Q30
Consensus quality: 153345 bases at least Q20
Insert size: 160000; agarose-fp
Insert size: 15465; sum-of-contigs
Quality coverage: 4.1 in Q20 bases; agarose-fp
Quality coverage: 4.2 in Q20 bases; sum-of-contigs

----- NOTE: This is a 'working draft' sequence. It currently consists of 14 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved. -----

1 1836: contig of 1836 bp in length
1837 1936: gap of 100 bp
1937 5796: contig of 3860 bp in length
5797 5896: gap of 100 bp
5897 9797: contig of 3901 bp in length
9798 9897: gap of 100 bp
13919: contig of 4022 bp in length
14019: gap of 100 bp
14020: contig of 3381 bp in length
17401 17500: gap of 100 bp
17501 21253: contig of 3753 bp in length

ORIGIN

Query Match 66.7%; Score 20; DB 2; Length 156165;
Best Local Similarity 82.1%; Pred. No. 2.9e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY	2	TGGACCCCTCTCGACTCGAGATTCGCC 29
Db	11285	TGGACCTCTCTTCAAGAGTCTGC 11258

RESULT 8
AC100852/c
AC100852 Locus 157980 bp DNA linear PRI 29-AUG-2002
DEFINITION Homo sapiens chromosome 17, clone RP11-125C16, complete sequence.
ACCESSION AC100852
VERSION AC100852.2 GLI-2253166
KEYWORDS HTG.

SOURCE	Homo sapiens
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 15780)
JOURNAL	Birren, B.; Nusbaum, C. and Lander, E. Homo Sapiens chromosome 17, clone RPI1-125C16 Unpublished
TITLE	2 (bases 1 to 15780) 2 (bases 1 to 15780)
AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N., Brown, A., Camarata, J., Bastien, V., Boguslavskiy, L., Bonkhalter, B., Cooke, P., DeArellano, K., Dewart, K., Diaz, J.S., Dodge, S., Faro, S., Ferrreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyn, S., Ginda, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, J., Holme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Kartas, A., Keils, C., Larocque, K., Lamazares, R., Landers, T., Lebockzy, J., Levine, R., Liu, G., Maclean, C., Macdonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McPheevers, R., Meldrum, J., Menous, L., Milova, T., Mienga, V., Murphy, T., Naylor, J., Nguen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Rettar, R., Rieback, M., Rilev, R., Riss, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schupack, P., Seaman, S., Severy, P., Spencer, B., Stange, N., Thomann, N., Stojanovic, N., Straus, N., Subramanian, A., Talamas, J., Testayre, S., Theodore, J., Topham, K., Travers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, A., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.
JOURNAL	Direct Submission
REFERENCE	Submitted (22-Nov-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
AUTHORS	3 (bases 1 to 15790)
JOURNAL	Submitted (22-Nov-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
TITLE	2 (bases 1 to 15790)
AUTHORS	Birren, B., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavskiy, L., Boukhalter, B., Camarata, J., Chang, J., Chazaro, B., Choepel, Y., Collymore, A., Cook, A., Cooke, P., DeArellano, K., Dewart, K., Diaz, J.S., Dodge, S., Faro, S., Ferrreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gardyn, S., Gord, S., Graham, L., Grand-Pierre, N., Hagos, B.,' Horton, L., Huine, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Kartas, A., Keils, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., Macdonald, P., Major, J., Matthews, C., McCarthy, M., Meldrum, J., Menous, L., Milova, T., Mienga, V., Murphy, T., Navilar, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Raymond, C., Rettar, R., Riss, C., Rogov, P., Roman, J., Roy, A., Schauer, S., Seaman, S., Severy, P., Smith, C., Spender, B., Strange-Thomann, N., Stojanovic, N., Talamas, J., Testayre, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Viel, A., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.
JOURNAL	Direct Submission
COMMENT	Submitted (29-Aug-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA On Aug 29, 2002 this sequence version replaced g1:17048222. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html
FEATURES	----- Genome Center Center: Whitehead Institute/ MIT Center for Genome Research Center code: WIBR Web site: http://www-seq.wi.mit.edu Contact: sequence_submissions@genome.wi.mit.edu ----- Project Information Center project name: L21587 Center clone name: 125_C_16 ----- Location/Qualifiers location source 1. .157980 /organism="Homo sapiens" /mol_type="genomic DNA"

	AUTHORS
repeat_region	13034. 13209 /rpt family="MIR" complement(15480. .15590) Anyalebechi, V., Aoyagi, A., Ayodeji, M., Bacal, R., Baden, H., Baldwin, D., Bandaraanake, D., Barber, D., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blankeenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burn, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavares, B., Cesari, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyne, M., Cree, A., D'Souza, L., Davis, M.L., Davis, C., Davy-Carroll, L., De Andrade, C., Dederich, D., Delgado, O., Denison, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Drapes, H., Dugan-Rocha, S., Dunn, A., Dubbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C.A., Failes, T., Fang, G., Fernandez, S., Finley, M., Flagg, N., Forges, L., Foster, M., Foster, P., Fraser, C.M., Gabisi, A., Gantz, R., Garcia, A., Garner, T., Gaura, M., Gebregoridis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guvara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Haves, A., Henderson, N., Hernandez, J., Hernández, R., Hines, S., Hladin, S.L., Hodgson, A., Hoguez, M., Hollins, B., Howell, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorenshuva, L., Louissegard, H., Lozano, R., Lu, X., Ma, J., Maheshwari, M., Mahindaranne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Magua, P., Martin, K., Martin, R., Martinez, E., Mawhinney, S., Mcleod, M.P., McNeill, T.Z., Meinen, E., Milovaviljevic, A., Miner, G., Minja, B., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munida, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norrie, S., Nwachukwu, O., Okuongwa, G., Olarnpunsaeng, A., Pal, S., Paris, K., Pasternak, S., Paul, H., Perez, A., Perez-L., Pfannoch, C., Plopper, F., Poindecker, A., Popovic, D., Primus, E., Pu, L.-L., Puazo, M., Quiroz, J., Rachlin, B., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, M., Rose, R., Ruiz, S.J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shamsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajs, D., Snead, A., Sodergreen, E., Song, X.-Z., Sorelle, R., Sosa, J., Steinle, M., Strong, R., Sutton, A., Svatzek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejo, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Walder, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Wilson, R., Wleecy, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G., and Gibbs, R.A.
every Match	66.7%; Score 20; DB 9; Length 15790;
1st Local Similarity	82.1%; Pred. No. 2.9e+02; Mismatches 0; Indels 0; Gaps 0;
matches	23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
repeat_region	2 TGACCCCTCTCGACTCGAGAGTCCGC 29
repeat_region	/rpt family="ALUJb"
repeat_region	25229. .23254
repeat_region	/rpt family="ALUJb"
repeat_region	24607. .24789
repeat_region	/rpt family="FAM"
repeat_region	24846. .25144
repeat_region	/rpt family="ALUJb"
repeat_region	25229. .23254
repeat_region	/rpt family="AT-rich"
repeat_region	25700. .26104
LT 9	
3011	
S	AC123011
NITION	257595 bp DNA linear HTG 12-OCT-2002
SESSION	Rattus norvegicus clone CH230-92124, WORKING DRAFT SEQUENCE, 4 unorderd pieces.
AC123011	AC123011.3 GI:23665280
AC123011.3	GI:23665280
HTG; HTGS; PHASEI; HTGS DRAFT; HTGS FULLTOP.	
CE	Rattus norvegicus (Norway rat)
GANISM	Rattus norvegicus
Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae;	Eukaryota; Metzoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Ratrus.	Ratrus (bases 1 to 257595)
REFERENCE	1 (bases 1 to 257595)
COMMENT	
REFERENCE	2 (bases 1 to 257595)
AUTHORS	Worley, K.C.
TITLE	Direct Submission
JOURNAL	Submitted (26-MAY-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	3 (bases 1 to 257595)
AUTHORS	Rat Genome Sequencing Consortium.
TITLE	Direct Submission
JOURNAL	Submitted (12-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
COMMENT	On Oct 10, 2002 this sequence version replaced gi:21909149. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlass (http://www.hgsc.bcm.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlass assembly ('contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole

genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GYWD

Center clone name: CH230-92124

----- Summary Statistics

Assembly program: Phrap, version 0_990329

Consensus quality: 236342 bases at least Q40

Consensus quality: 23980 bases at least Q30

Estimated insert size: 242005 bases at least Q20

Quality coverage: 7x in 920 bases; sum-of-contigs estimation

Quality coverage: 7x in 920 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length

(* see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

* 1 250677: contig of 250677 bp in length

* 250678 250777: gap of unknown length

* 252308 252307: gap of 1530 bp in length

* 252408 253577: contig of 1170 bp in length

* 253678 257595: gap of unknown length.

* FEATURES source

* /organism="Rattus norvegicus"

* /mol_type="genomic DNA"

* /db_xref="taxon:10116"

* /clone="CH230-92124",

* complement(246393..247143)

* /note="clone boundary

* clone_end;Sp6

* site:EcoRI

* end_sequence:BH295371"

* /note="clone boundary

* clone_end;Sp6

* site:EcoRI

* end_sequence:BH295371"

ORIGIN

Query Match

Best Local Similarity

Matches

23;

Conservative

0;

Mismatches

6;

Indels

0;

Gaps

0;

ORIGIN

Query

Match

Best

Local

Similarity

Score

19.4;

DB

4;

Length

11406;

Matches

23;

Conservative

0;

Mismatches

6;

Indels

0;

Gaps

0;

RESULT 11
AC087075 LOCUS CA087075 DEFINITION Caenorhabditis briggsae cosmid CB023K0, complete sequence.

QY 1 CTCGACCCCTCTGACTCGAGAGTC 29
DB 6919 CGGGCCCTCTTGAGTCAGTTAAC 6891

Query

Match

Best

Local

Similarity

79.3%

Score

70387

bP

DNA

linear

INV

05-DEC-2000

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Submitted by:

Genome Sequencing Center

Department of Genetics, Washington University,

St. Louis, MO 63110, USA

e-mail: jspieh@watson.wustl.edu

NOTICE: This sequence may not be the entire insert of this clone. It may be shorter because we only sequence overlapping sections.

once, or longer because we provide a small overlap between neighboring submissions

FEATURES source

Location/Qualifiers

1. . 70387
 /organism="Cenorhabditis briggsae"
 /mol_type="genomic DNA"
 /db_xref="axon:6238"
 /clone="CB023K10"
 23139. . 23209
 /product="tRNA-Gly"
 /note="codon recognized: GGC"
 /note="product (36569, "36640)
 /product="tRNA-Glu"
 /note="codon recognized: GAG"
 37437. . 37508
 /product="tRNA-Gln"
 /note="codon recognized: CAA"

ORIGIN

Query Match

Best Local Similarity 64.7%; Score 19.4; DB 3; Length 70387;

Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 TGGACCCCTCTGACTCGAGATGTCGGT 30
 Db 6252 TGGCACGCTCTGATTGAAAGTCAGT 6280

RESULT 12

AB016816/c

Sequence split into 9 fragments Locus AB016816 Accession AB016816

Fragment Name Begin End

AB016816_0 1 110000

AB016816_1 10001 210000

AB016816_2 200001 310000

AB016816_3 300001 410000

AB016816_4 40001 510000

AB016816_5 50001 610000

AB016816_6 60001 710000

AB016816_7 70001 810000

AB016816_8 800001 907057

Continuation (7 of 9). of AB016816 from base 600001 (AE016816 Eremothecium gossypii ATCC

Query Match

Best Local Similarity 79.3%; Score 19.4; DB 8; Length 110000;

Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 CTGGACCCCTCTGACTCGAGATGTCGGT 29
 Db 20976 CTGGACTGCTGCGAATCGAGCTTCCAC 20948

RESULT 13

AC104791/c

AC104791 Homo sapiens BAC clone RP11-181K12 from 4, complete sequence.

DEFINITION Homo sapiens BAC clone RP11-181K12

AC104791 AC032008

AC104791.3 GI:18482313

RESULT 13
 AC104791 Homo sapiens (human)

DEFINITION Homo sapiens (human)

VERSION AC104791.3 GI:18482313

KEYWORDS HTG.

REFERENCE Sultston,J.E. and Waterston,R.

AUTHORS Genome Res. 8 (11), 1097-1108 (1998)

JOURNAL 99063192

PUBMED 9847074

REFERENCE 2 (bases 1 to 159969)

AUTHORS Isak,A., Meyer,R. and Creason,X.

TITLE The sequence of Homo sapiens BAC clone RP11-181K12
 JOURNAL Unpublished (2001)
 REFERENCE 3 (bases 1 to 159969)
 AUTHORS Waterston,R.H.

REFERENCE Direct Submission
 AUTHORS Submitted (21-DEC-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
 4 (bases 1 to 159969)

REFERENCE Waters, R.H.
 AUTHORS Direct Submission
 TITLE Submitted (03-FEB-2002) Department of Genetics, Washington University School of Medicine, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 5 (bases 1 to 159969)

COMMENT On Feb 3, 2002 this sequence version replaced gi:18042374.
 JOURNAL ----- Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: http://genome.wustl.edu/gsc

----- Summary Statistics
 Center project name: H_NH0181K12
 Drafting Center: WIBR

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
 Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
 The RP11-11 human BAC library was made from the blood of one male donor, as described by Osoegawa,K., Woon,P.Y., Zhao,B., Frengen,E., Tateno,M., Cataneo,J.J. and de Jong,P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>
VECTOR: pBacCE3.6

NEIGHBORING SEQUENCE INFORMATION:
 The clone sequenced to the left is RP11-29M9; the clone sequenced to the right is RP11-20B7. Actual start of this clone is at base position 1 of RP11-181K12; actual end is at base position 159969 of RP11-181K12.
 A transposon has been identified in the vector of this clone.

The sequence of AC032008 has been incorporated into AC104791.

FEATURES
 source
 Location/Qualifiers
 1. 159969
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"

COMMENT		Genome Center	
Center:	RIKEN Genomic Sciences Center (GSC)	AC011862	196472 bp DNA linear HTG 13-JUL-2000
Center code:	RIKEN	DEFINITION	Homo sapiens clone RP11-15K8, LOW-PASS SEQUENCE SAMPLING.
Web site:	http://hgsv.gsc.riken.go.jp/	ACCESSION	Homo sapiens
Contact:	hattori@gsc.riken.go.jp	VERSION	AC011862.4 GI:7144913
----- Project Information		KEYWORDS	HTG; RGS; PHASE0.
Center project name:	HumDraft11	SOURCE	Homo sapiens (human)
Center clone name:	RP11-368I20	ORGANISM	Homo sapiens
----- Summary Statistics		REFERENCE	Bukatyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Sequencing vector:	PCR products	AUTHORS	Mammalia; Buteraria; Primates; Cattarrhini; Hominidae; Homo;
Chemistry:	Dye-terminator	JOURNAL	1 (bases 1 to 196472)
Assembly program:	Phrap	COMMENT	Birren,B., Linton,L., Muzna,D. et al. Human Genome Project Reference Sequence of Chromosome 22. Nature 409: 934-938 (2000).
Consensus quality:	188057 bases at least Q40	REFERENCE	Birren,B., Linton,L., Muzna,D. et al. Human Genome Project Reference Sequence of Chromosome 22. Nature 409: 934-938 (2000).
Consensus quality:	188482 bases at least Q30	AUTHORS	Baldwin,J., Birnboim,H., Beckley,R., Boguski,M., Bouknight,B., Brown,A., Castle,A., Colangelo,M., Collins,S., Collymore,A., Cooke,P., DeAngelis,K., Domino,M., Donelan,L., Doyle,M., Ferrera,P., Filzthorpe,W., Forrest,C., Funke,R., Gage,D., Galagan,J., Gardyna,S., Grant,G., Haggas,B., Hefford,A., Horton,L., Howland,J.C., Johnson,R., Jones,C., Kann,L., Katsaris,A., Klein,J., Lehoczky,J., Lieu,C., Lockie,K., Macdonald,P., Marquis,N., McEwan,P., McGuck,A., McKernan,K., McLaughlin,J., Meldrim,J., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., Peterson,K., Pollicino,V., Riley,R., Roy,A., Santos,R., Severy,P., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Tallamas,J., Tesfaye,S., Tirrell,A., Vasilev,H., Vo,A., Wheeler,J., Wu,X., Wyman,D., Ye,W.J., Zimmer,M., and Zody,M.
Quality coverage:	12.20x in Q20 bases; sum-of-contigs	TITLE	Submitted (15-OCT-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
----- Note		JOURNAL	On Mar 3, 2000 this sequence version replaced gi:6980935. All repeats were identified using RepeatMasker.
NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.	----- Note		Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMaster.html
----- Feature Record		COMMENT	Center: Whitehead Institute/ MIT Center for Genome Research
FEATURES	source	Center code: WIBR	Center code: WIBR
----- Feature Record		Web site: http://www.seq.wi.mit.edu	Web site: http://www.seq.wi.mit.edu
source	/organism="Homo sapiens"	Contact: sequence_submissions@genome.wi.mit.edu	Contact: sequence_submissions@genome.wi.mit.edu
	/mol_type="genomic DNA"	----- Project Information	----- Project Information
	/db_xref="taxon:9606"	Center project name: IJ3484	Center project name: IJ3484
	/chromosome="11"	Center clone name: 15_K_8	Center clone name: 15_K_8
	/map="11q"	----- Note	
	/clone="RP11-368I20"	----- Note	
misc_feature	1..70266	----- Note	
misc_feature	/notes="assembly_fragment"	----- Note	
misc_feature	70367..130873	----- Note	
misc_feature	/note="assembly_fragment_clone_end:T7 vector_side:right"	----- Note	
misc_feature	130914..188629	----- Note	
misc_feature	188730..189269	----- Note	
ORIGIN	/note="assembly_fragment_clone_end:SP6 vector_side:right"	----- Note	
Query	Match 64.7%; Score 19.4; DB 2; length 189269;	----- Note	
Bert Local Similarity 79.3%; Pred. No. 5.3e+02; Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;	1..161287	----- Note	
Db 161287 TGGACCCCTCTCGACTCGAGAGTTCCTCT 30	161287 TGGACCTCTCGACTCGAGAGTTCCTCT 161259	----- Note	
RESULT 15 AC011862/c		----- Note	

```

* * * * *
8855 9749: contig of 895 bp in length
9750 9849: gap of 100 bp
9850 10738: contig of 889 bp in length
10739 10838: gap of 100 bp
10839 11725: contig of 887 bp in length
11726 11826: gap of 100 bp
11826 12708: contig of 882 bp in length
12708 12807: gap of 100 bp
12807 13697: contig of 890 bp in length
13698 13797: gap of 100 bp
13797 13798: contig of 871 bp in length
13798 14668: contig of 100 bp
14669 14768: gap of 100 bp
14769 15648: contig of 880 bp in length
15649 15748: gap of 100 bp
15748 18559: contig of 874 bp in length
18559 18659: contig of 100 bp
18659 19534: contig of 876 bp in length
19534 19634: gap of 100 bp
19634 19635: contig of 875 bp in length
19635 20510: contig of 100 bp
20511 20610: gap of 100 bp
20611 21517: contig of 907 bp in length
21518 21617: gap of 100 bp
21617 22499: contig of 882 bp in length
22499 22500: gap of 100 bp
22500 22600: contig of 881 bp in length
22600 23480: gap of 100 bp
23481 23581: contig of 864 bp in length
23581 24444: gap of 100 bp
24445 24544: contig of 935 bp in length
24545 25454: gap of 100 bp
25454 25840: contig of 913 bp in length
25840 25580: gap of 100 bp
25580 26492: contig of 964 bp in length
26493 26593: gap of 100 bp
26593 27454: contig of 862 bp in length
27454 27554: gap of 100 bp
27554 28431: contig of 877 bp in length
28431 28531: gap of 100 bp
28531 28432: contig of 964 bp in length
28432 29495: gap of 100 bp
29495 29595: contig of 894 bp in length
29595 30489: contig of 876 bp in length
30489 30490: gap of 100 bp
30490 31435: contig of 846 bp in length
31435 31535: gap of 100 bp
31535 31436: contig of 890 bp in length
31436 32425: contig of 100 bp
32425 32526: contig of 876 bp in length
32526 33401: contig of 100 bp
33401 33502: contig of 875 bp in length
33502 34377: gap of 100 bp
34377 34476: contig of 879 bp in length
34476 35455: contig of 100 bp
35455 35456: gap of 100 bp
35456 36370: contig of 915 bp in length
36370 36470: gap of 100 bp
36470 37358: contig of 888 bp in length
37358 37458: gap of 100 bp
37458 37559: contig of 874 bp in length
37559 38332: contig of 874 bp in length
38332 38433: gap of 100 bp
38433 39285: contig of 853 bp in length
39285 39385: contig of 100 bp
39385 40317: contig of 932 bp in length
40317 40417: gap of 100 bp
40417 41314: contig of 897 bp in length
41314 41414: gap of 100 bp
41414 42297: contig of 883 bp in length
42297 42398: gap of 100 bp
42398 43270: contig of 873 bp in length
43270 43370: gap of 100 bp
43370 43371: contig of 898 bp in length
43371 44268: gap of 100 bp
44268 44368: gap of 100 bp
44368 45233: contig of 865 bp in length

```

Query Match 64.9%; Score 19.4; DB 2; Length 196472;
 Best Local Similarity 79.3%; Pred. No. 5.3e+02; Mismatches 23; Conservative 0; Indels 0; Gaps 0;
 Matches 23; Conservatism 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 CTCGACCCCTCTGACTCTGAGAGTTCGG 29
 DO 6946 CTGGACCCCTCTGACTCTGAGAGTTCGG 6918

Search completed: April 26, 2005, 11:39:38

Job time : 1686 secs

GenCore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.

On nucleic - nucleic search, using sw model

Run on: April 26, 2005, 06:19:21 ; Search time 427 Seconds
 (Without alignments)
 415.907 Million cell updates/sec

Title: US-10-086-062-4

Perfect score: 30

Sequence: 1 ctggaccctctcgactcgagatccgct 30

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : N_GeneSeq_1stdcc04,*

1: geneseqn1980s;*

2: geneseqn1990s;*

3: geneseqn2000s;*

4: geneseqn2001as;*

5: geneseqn2001bs;*

6: geneseqn2002as;*

7: geneseqn2002bs;*

8: geneseqn2003as;*

9: geneseqn2003bs;*

10: geneseqn2003ss;*

11: geneseqn2003ds;*

12: geneseqn2004as;*

13: geneseqn2004bs;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	30	100.0	30	AAD24069
C	2	19.2	64.0	1500 5 AAS11024
C	3	19	63.3	121124 12 ADQ97107
C	4	18.8	62.7	2481 10 ABT41766
C	5	18.8	62.7	23107 9 ADA0762
C	6	18.8	62.7	23107 10 ADB2500
C	7	18.8	62.7	23107 10 ADC85242
C	8	18.8	62.7	23107 12 ADM4357
C	9	18.6	62.0	3210 2 AAZ27624
C	10	18.6	62.0	3459 2 AAZ27623
C	11	18.4	61.3	319608 3 AHS51601
C	12	18.4	61.3	319608 5 ARS0301
C	13	18.2	60.7	340449 8 AML2198
C	14	18	60.0	42325 10 ADB4382
C	15	18	60.0	110000 11 ADM27081_10
C	16	17.8	59.3	165 10 ADD49400
C	17	17.8	59.3	254 12 ADG0322
C	18	17.8	59.3	369 11 ABD11207
C	19	17.8	59.3	426 10 ADD49385
C	20	17.8	59.3	449 10 ADD49343

ALIGMENTS

Result No.	Score	Query Match Length	DB ID	Description
1	17.8	59.3	449	10 ADD49294
C	22	17.8	59.3	986 6 ABO46720
C	23	17.8	59.3	Abq46721 Oligonucle
C	24	17.8	59.3	Adl12873 Human imm
C	25	17.8	59.3	Aak77077 Human imm
C	26	17.8	59.3	Acn91401 Breast ca
C	27	17.8	59.3	Adr25834 Breast ca
C	28	17.8	59.3	Acn91401 Human BCR
C	29	17.8	59.3	Adr25834 Murine ca
C	30	17.6	58.7	Ado52469 Human met
C	31	17.6	58.7	Aaz25392 Maize sta
C	32	17.6	58.7	Abi03188 Drosophil
C	33	17.4	58.0	Abn51822 Mouse spl
C	34	17.4	58.0	Aaz11036 Human gen
C	35	17.4	58.0	Aax98464 Human can
C	36	17.4	58.0	Aai85652 Human pol
C	37	17.4	58.0	Ach1661 Human toe
C	38	17.4	58.0	Ach74968 Human gen
C	39	17.4	58.0	Aaz15926 Human gen
C	40	17.4	58.0	Ado33441 Transcript
C	41	17.4	58.0	Abk30430 Human G-p
C	42	17.4	58.0	Adr92877 Novel S.
C	43	17.4	58.0	Ado50577 Bacterial
C	44	17.4	58.0	Aas41038 cDNA enco
C	45	17.4	58.0	Aas634819 cDNA enco

XX

New promoter sequences for causing expression of a structural gene especially agronomic gene or open reading frame in a plant cell, comprises engineered versions of the maize ubiquitin promoter.

Claim 6: Page 54; 68pp; English.

CC The invention relates to a promoter sequence capable of directing expression of a nucleotide sequence in a plant cell, comprising maize ubiquitin (Ubi-1) promoter sequence with a modification so that it does not include two overlapping heat shock elements (HSE) or it directs expression to increase the endosperm/embryo expression ratio of the protein when compared to the ratio from a wild-type ubiquitin promoter. CC The modified Ubi-1 promoter comprises a deletion of 3', 5' or both HSEs, a two non-overlapping/adjacent HSEs, replacement of HSEs with a trimer of a seed specific element from the promoter of pea lectin gene PsL or a insertion of a transcription factor binding site in the HSE region. An expression construct comprising modified Ubi-1 promoter is useful for causing expression of a structural gene (agronomic genes) or open reading frame in a plant cell. The modified Ubi-1 promoter increases expression levels beyond those observed with native ubiquitin promoter. The present sequence is maize engineered Ubi-1 promoter with heat shock elements adjacently placed. Note: The present sequence is also shown in claim 26, page 55 of the specification. However, this sequence has an additional nucleotide at the 3', end.

CC Sequence 30 BP; 4 A; 12 C; 7 G; 7 T; 0 U; 0 Other;

CC Query Match 100.0%; Score 30; DB 6; Length 30;

CC Best Local Similarity 100.0%; Pred. No. 0.0012; Mismatches 0; Indels 0; Gaps 0;

CC Matches 30; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 CTGGACCCCTCTGACTCGAGAGTCCGCT 30

Db 1 CTGGACCCCTCTGACTCGAGAGTCCGCT 30

RESULT 2

XX AAS11024/C

TD AAS11024 standard; DNA; 1500 BP.

XX AC AAS11024;

XX DT 11-SEP-2003 (revised)

DT 24-OCT-2001 (first entry)

XX DE Vibrio cholera 16S ribosomal RNA gene.

XX KW Antisense; bacterial 16S ribosomal RNA; rRNA; bacterial infection; human; food grain supplement; livestock; poultry; therapeutic; ds.

OS Vibrio cholerae.

XX PN WO200142457-A2.

XX PD 14-JUN-2001.

XX PF 29-NOV-2000; 2000WO-US042391.

XX PR 29-NOV-1999; 99US-0168150P.

XX PA (AVIB-) AVI BIOPHARMA INC.

XX PI Iversen PL;

XX DR WPI; 2001-457295/49.

XX PT Antibacterial compound, useful for treating bacterial infections and as livestock and poultry food supplement, comprises antisense oligonucleotides complementary to bacterial 16S and 23S rRNA.

XX PS Disclosure; Page; 62pp; English.

XX AAS11021-AAS11034 represent the coding sequences of bacterial 16S rRNA (rRNA) genes. The sequences were used to design anti-bacterial compounds comprising substantially uncharged antisense oligomers containing 8-40 nucleotide subunits, including a targeting nucleic acid sequence at least 10 nucleotides in length which is complementary to a bacterial 16S or 23S rRNA nucleic acid sequence. The antisense oligomers are used for treating a bacterial infection in a

CC human or a mammalian animal produced by Escherichia coli, Salmonella typhimurium, Pseudomonas aeruginosa, Vibrio cholera, Neisseria gonorrhoea, Helicobacter pylori, Bartonella henselae, Haemophilus influenza, Shigella dysenteriae, Staphylococcus aureus, Mycobacterium tuberculosis, Streptococcus pneumoniae, Treponema pallidum and Chlamydia trachomatis. The antibacterial compound may be used as a food grain supplement in livestock and poultry food composition. Note: The present sequence is not shown in the specification but has been accessed from GenBank using the appropriate accession number given in the specification. (Updated on 11-SEP-2003 to standardize OS field)

XX Sequence 1500 BP; 376 A; 326 C; 482 G; 312 T; 0 U; 4 Other;

XX Query Match 64.0%; Score 19.2; DB 5; Length 1500;

XX Best Local Similarity 75.0%; Pred. No. 1.1e-02; Mismatches 2; Indels 5; Gaps 0;

XX Matches 21; Conservative 2; MisMatches 5; Indels 0; Gaps 0;

OY 1 CTGGACCCCTCTGACTCGAGAGTCCG 28

Db 212 CTGGGCCATCCGACGGARGTCG 185

RESULT 3

XX ID ADQ97107/c

XX ADQ97107 standard; DNA; 121124 BP.

XX AC ADQ97107;

XX DT 07-OCT-2004 (first entry)

XX DE Mouse cancer associated sequence MP08-002, SEQ ID 83.

XX KW Cytostatic; Gene Therapy; cancer; leukemia; lymphoma; Mouse; ds.

OS Mus musculus.

PN WO2004160314-A2.

XX PD 22-JUL-2004.

PF 22-DEC-2003; 2003WO-US041389.

PR 27-DEC-2002; 2002US-00330773.

XX PA (SAGR-) SAGRES DISCOVERY INC.

XX PT Morris DW, Malandro MS;

XX DR WPI; 2004-543781/52.

XX PR New isolated cancer associated nucleic acids comprising at least 10 contiguous nucleotides, useful for diagnosing, preventing and/or treating cancers such as leukemia and lymphoma.

XX PS Claim 1; SEQ ID NO 83; 199pp; English.

XX The present invention relates to cancer associated sequences (ADQ97025-ADQ9804). The sequences are useful for the diagnosis, prevention and/or treatment of cancer, such as leukemia and lymphoma. Note: The sequence data for this patient did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

XX Sequence 121124 BP; 32972 A; 25314 C; 26641 G; 35451 T; 0 U; 746 Other;

SQ Sequence Match 63.3%; Score 19; DB 12; Length 121124;

SQ Best Local Similarity 81.5%; Pred. No. 1.9e+02; Mismatches 5; Indels 0; Gaps 0;

SQ Matches 22; Conservative 0; MisMatches 5; Indels 0; Gaps 0;

OY 4 GACCCCTCTGACTCGAGAGTCCGCT 30

Db 88764 GCCCCCTCTGATCAGAGTCAGCT 88738

			Query Match	62.7%; Score 18.8; DB 9; Length 23107;
			Best Local Similarity	76.7%; Pred. No. 2.1e+02; Mismatches 0; Indels 0; Gaps 0;
			Matches	23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
			DB	14973 CTGGGAGCCCTTGACTCAGATTCGCT 14902
			AC	ACDB72500
			ID	ADB72500 standard; DNA; 23107 BP.
			CK	CK
			DE	ADB72500;
			DT	04-DEC-2003 (first entry)
			EE	Human Runx3 gene.
			KW	human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphoma; cancer; neoplasm; adenocarcinoma; sarcoma; gene.
			KX	Homo sapiens.
			PN	WO2003045230-A2.
			PD	XX
			PR	05-JUN-2003.
			PF	XX
			XX	02-DEC-2002; 2002WO-US038582.
			XX	30-NOV-2001; 2001US-00997722.
			PA	(SAGR-) SAGRES DISCOVERY.
			PI	Morris DW, Engelhard EK;
			DR	DR; WPI; 2003-513603/48.
			XX	New recombinant nucleic acid comprising a nucleotide sequence of any of the carcinoma-associated (CA) genes, useful for screening for drug candidates for diagnosing or treating carcinomas.
			PS	Claim 1; SEQ ID NO 28; 983pp; English.
			XX	The invention relates to a recombinant nucleic acid comprising a nucleotide sequence selected from any of the fully defined carcinoma-associated (CA) genes from the 50 tables given in the specification. The CA proteins are secreted, transmembrane or intracellular protein. The recombinant nucleic acids are useful for screening for drug candidates for diagnosing or treating carcinomas. Sequences given in ADC85215-CC represent CA genes of the invention.
			CC	Sequence 23107 BP; 5308 A; 6264 C; 6229 G; 5306 T; 0 U; 0 Other;
			CC	Query Match 62.7%; Score 18.8; DB 10; Length 23107;
			CC	Best Local Similarity 76.7%; Pred. No. 2.1e+02; Mismatches 0; Indels 0; Gaps 0;
			CC	Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
			CC	DB 14973 CTGGGAGCCCTTGACTCAGATTCGCT 14902
			CC	RESULT 8
			CC	ADM74357
			CC	ID ADM74357 standard; DNA; 23107 BP.
			AC	CK
			CK	ADM74357;
			DT	01-JUL-2004 (first entry)
			XX	Human carcinoma associated (CA) nucleic acid #13.
			DE	Human carcinoma associated (CA) nucleic acid #13.
			KW	Human; carcinoma associated nucleic acid; CA nucleic acid; gene; ds; carcinoma associated protein; CAP; carcinoma; leukaemia; lymphoma; cytostatic.
			KW	Cytostatic.
			OS	Homo sapiens.
			XX	USS2004072154-A1.
			PD	15-APR-2004.
			XX	30-NOV-2001; 2001US-00997722.
			XX	22-DEC-2000; 2000US-0074377.
			PR	02-MAR-2001; 2001US-00798586.
			PA	(MORR/) MORRIS D W.
RESULT 7				
ADC85242				
ID				ADC85242 standard; DNA; 23107 BP.
AC				ADC85242;
DT				01-JAN-2004 (first entry)

PA (ENGE/) ENGELHARD E K.
 XX
 PI Morris DW, Engelhard EK;
 XX
 DR WPI; 2004-328562/30.

PT New carcinoma associated gene or protein, useful for preparing a composition for diagnosing or treating carcinoma e.g., leukemia or lymphoma.

XX
 PS Claim 1; SEQ ID NO 28; 29pp; English.

The invention relates to new recombinant nucleic acids. The invention also relates to a host cell comprising a recombinant nucleic acid or expression vector, an expression vector comprising a recombinant nucleic acid, a recombinant protein, a method of screening for drug candidates, a method of screening for a biactive agent capable of binding to a carcinoma associated protein (CAP) encoded by a nucleotide sequence, a method of screening for a biactive agent capable of modulating the activity of a CAP, a method of evaluating the effect of a candidate carcinoma drug, a method of diagnosing carcinoma, a method of inhibiting the activity of a CAP, a method of treating carcinomas, a method of neutralizing the effect of a CAP and a method of diagnosing carcinoma or carcinomas associated protein (CAP) encoded by a nucleotide sequence, a carcinoma drug comprises administering the drug to a patient, removing a cell sample from the patient and determining alterations in the expression or activation of a gene comprising the nucleotide sequence. A method of diagnosing carcinoma comprises determining the expression of one or more genes comprising the nucleic acid sequence in a first tissue type of a first individual and comparing the expression of the gene from a second normal tissue type from the first individual or a second unaffected individual, where a difference in the expression indicates that the first individual has carcinoma. A method of inhibiting the activity of a CAP comprises binding an inhibitor to the CAP. Treating carcinomas comprises administering to a patient an inhibitor of CAP. Neutralising the effect of a CAP comprises contacting an agent specific for the CAP, the polypeptide specifically binds to the protein encoded by the nucleic acid. It comprises an antibody that specifically binds to the protein encoded by the nucleic acid. The nucleic acids are useful for preparing a composition for diagnosing or treating carcinoma e.g., leukaemia or lymphoma. This sequence represents a human carcinoma associated (CA) nucleic acid of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html.

SQ sequence 23107 BP; 5308 A; 6264 C; 6229 G; 5306 T; 0 U; 0 Other; Query Match 62.7%; Score 18.8; DB 12; Length 23107; Best Local Similarity 76.7%; Pred. No. 2.1e+02; Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 CTGGGACCCCTTCGACTCGAGAGTCCGCT 30
 Db 14873 CTGGGACCCCTTCGACTCCAGAATTCCGCT 14902

RESULT 9
 AA227624/c
 ID AA227624 standard; DNA; 3210 BP.

AC AA227624;
 XX
 DT 20-DEC-1999 (first entry)
 DE Plasmid SPf-1.

XX
 KW Extracellular compartment modification; floral cell; self-compatibility; pollen-pistil interaction; self-incompatibility; insect growth control;
 KW plasmid SPF-1; GP1S363 gene; cysteine protease inhibitor gene; ss.
 XX
 OS Synthetic.

XX
 KW Extracellular compartment modification; floral cell; self-compatibility; pollen-pistil interaction; self-incompatibility; insect growth control;
 KW plasmid SPF-1; GP1S363 gene; cysteine protease inhibitor gene; ss.
 XX
 OS Synthetic.

PA WO9949063-A1.
 PN XX
 PD 30-SEP-1999.
 PT XX
 PR 19-MAR-1999; 99WO-CA000237.
 XX
 PR 20-MAR-1998; 98US-0078728P.
 XX
 PA (MIAC) CANADA MIN AGRIC & AGRI-FOOD CANADA.
 XX
 PI Robert LS, Gleddie S;
 XX
 DR WPI; 1999-591104/50.

SQ Protein expression in floral cells for peptide display, mediating plant sterility, and modifying pollen-pistil interactions.

PS Example 6; Page 103-104; 11pp; English.

This sequence represents the plasmid SPIF-i, containing a fusion of the Brassica napus GP1S363 gene to the Onchocerca protease inhibitor gene. The invention relates to a method for modifying the extracellular compartment of a floral cell of a plant, that comprises expressing a construct comprising a gene of interest encoding a protein, fusion protein or peptide, or a fragment of them, which is capable of modifying the composition of the extracellular compartment of the floral cell and altering either the function, use or development of the floral cell or modifying the interaction of the floral cell with other cells, within an anther or pistil cell. The method is used to modify pollen-pistil interaction or function, which mediates, produces or prevents self-compatibility, self-incompatibility, out- or in-crossing or combinations of these. The method is also used for localizing proteins on the surface of pollen for the purpose of peptide display. The protein localized on the surface of the pollen may be an antibody or antigen or is a protein that is effective in controlling insect growth, behaviour, feeding, development or reproduction.

SQ Sequence 3210 BP; 1050 A; 626 C; 595 G; 939 T; 0 U; 0 Other; Query Match 62.0%; Score 18.6; DB 2; Length 3210; Best Local Similarity 84.0%; Pred. No. 2.2e+02; Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 CTGGGACCCCTTCGACTCGAGAGTT 25
 Db 1232 CTGGGACCCCTTCGAGATGGATGT 1208

RESULT 10
 AA227623/c
 ID AA227623 standard; DNA; 3459 BP.

AC AA227623;
 XX
 DT 20-DEC-1999 (first entry)
 DE Plasmid SPf-1.

XX
 KW Extracellular compartment modification; floral cell; self-compatibility; pollen-pistil interaction; self-incompatibility; insect growth control;
 KW plasmid SPF-1; GP1S363 gene; cysteine protease inhibitor gene; ss.
 XX
 OS Synthetic.

XX
 PN WO9949063-A1.
 PD 30-SEP-1999.
 XX
 PR 19-MAR-1999; 99WO-CA000237.
 XX
 PR 20-MAR-1998; 98US-0078728P.
 XX
 PA (MIAC) CANADA MIN AGRIC & AGRI-FOOD CANADA.

XX
PT Robert LS, Gleddie S;
XX DR WPI; 1999-591104/50.
XX PT Protein expression in floral cells for peptide display, mediating plant
PT sterility, and modifying pollen-pistil interactions.
XX PS Example 5; Page 100-102; 113pp; English.

XX This sequence represents the plasmid SPF1, containing a fusion of the
CC Brassica napus GPR363 gene to the Sitophilus cysteine protease gene. The
CC invention relates to a method for modifying the extracellular compartment
CC of a floral cell of a plant, that comprises expressing a construct
CC comprising a gene of interest encoding a protein, fusion protein or
CC peptide, or a fragment of them, which is capable of modifying the
CC composition of the extracellular compartment of the floral cell and
CC altering either the function, use or development of the floral cell or
CC modifying the interaction of the floral cell with other cells, within an
CC anther or pistil cell. The method is used to modify pollen-pistil
CC interaction or function, which mediates, produces or prevents self-
CC compatibility, self-incompatibility, out- or in-crossing or combinations
CC of these. The method is also used for localizing proteins on the surface
CC of pollen for the purpose of peptide display. The protein localized on
CC the surface of the pollen may be an antibody or antigen or is a protein
CC that is effective in controlling insect growth, behaviour, feeding,
CC development or reproduction.

XX Sequence 3459 BP; 1082 A; 721 C; 678 G; 978 T; 0 U; 0 Other;
* Query Match 62.0%; Score 18.6; DB 2; Length 3459;
Best Local Similarity 84.0%; Pred. No. 2.2e+02;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 CTGGACCCCTCTGACTCGAGAGTT 25
Db 1232 CTGGACCCCTTCTGAATGGATGTT 1208

RESULT 11
ID AH51601 standard; DNA; 319608 BP.
XX AC AH51601;
XX DT 29-AUG-2001 (first entry)
XX DE Human chromosome 13q31-q33 genomic nucleotide sequence.
XX KW sbgl; g34665; sbg2; g35017; g35018; chromosome 13q31-q33; haplotype;
KW biallelic marker; polymorphism; schizophrenia; bipolar disorder; ds.
XX OS Homo sapiens.
XX PN WO20058510-A2.
XX PD 05-OCT-2000.
XX PR 30-MAR-2000; 2000WO-1B000435.
XX PR 30-MAR-1999; 99US-0126903P.
XX PR 30-APR-1999; 99US-013171P.
XX PR 30-APR-1999; 99US-0132065P.
XX PR 14-JUL-1999; 99US-0143928P.
XX PR 27-JUL-1999; 99US-0145915P.
XX PR 29-JUL-1999; 99US-0146452P.
XX PR 29-JUL-1999; 99US-0146453P.
XX PR 28-OCT-1999; 99US-0162288P.
XX PA (GEST) GENSET.

XX Cohen D, Blumenfeld M, Chumakov I, Bouquellet L, Bihain B;
PI Essioux L;

XX DR WPI; 2000-619082/59.
XX PT Polynucleotides comprising sequences from sbgl and g35018 biallelic
PT markers are used for genotyping and detecting schizophrenia or bipolar
PT disorder and predisposition.

XX PS Claim 1; Page 409-493; 737pp; English.

XX AAH51601 represents a human genomic nucleotide sequence comprising sbgl,
CC g34665, sbg2, g35017 and g35018 nucleic acid sequences located on the
CC human chromosome 13q31-q33 locus. The nucleotide sequences contain
CC biallelic markers and polymorphisms. Sequences AAH51602 - AAH51626 and
CC AAB6207 - AAB6215 represent cDNA human sbgl cDNA sequences and protein
CC products. AAH51627 - AAH51631 and AAB6216 - AAB6218 represent g35018
CC cDNA sequences and protein products. Primers AAH51632 - AAH51699 are used
CC to isolate sbgl DNAs, while sbgl exons from different primates are
CC represented by sequences AAH51642 - AAH51699. Nucleotide sequences of
CC amplicons, which comprise biallelic markers located on the chromosome
CC 13q31-q33 locus are represented in AAH51700 - AAH51817. Biallelic markers
CC are represented in the sequences by degenerate/undefined base codes. PCR
CC primers AAH51818 and AAH51819 are used in the isolation of sequences of
CC the invention. The biallelic marker containing nucleotide sequences are
CC used to determine the identity of the nucleotide at a biallelic marker in a
CC sample DNA sequence. The nucleotide sequences may be labelled and used
CC for genotyping by determining the identity of a nucleotide at a Region D-
CC related biallelic marker in a biological sample from single or multiple
CC subjects. By determining the frequency of a biallelic marker in a
CC population an association between a genotype and a trait, a haplotype and
CC a trait and a phenotype and a trait can be detected. The sequences can be
CC used to determine a predisposition to or early onset of schizophrenia or
CC bipolar disorder or a beneficial response to or side effects related to
CC treatment against schizophrenia or bipolar disorder.

XX Sequence 319608 BP; 101600 A; 56677 C; 58335 G; 102722 T; 0 U; 274 Other;
* Query Match 61.3%; Score 18.4; DB 3; Length 319608;
Best Local Similarity 78.6%; Pred. No. 3.8e+02; No. 3; Mismatches 6; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 CTGGACCCCTCTGACTCGAGAGTTCCG 28
Db 8690 CTGAAACCCATCTCGATTGAGATTTACG 8717

RESULT 12
ID AAS09301 standard; DNA; 319608 BP.
XX AC AAS09301;
XX DT 26-SEP-2001 (first entry)
XX DE Human schizophrenia associated gene g35030 and biallelic markers A1-A71.
XX KW Human; g35030; biallelic marker; A1-A71; chromosome 13q31-q33;
KW schizophrenia; bipolar disorder; ds.
XX OS Homo sapiens.
XX PR Key_Location/Qualifiers
PR primer_bind 7938 .7558
PR /*tag= a
PR /*note= "B3ds primer 99-27943.rP"
PR primer_bind 8297 .8315
PR /*tag= b
PR misc_binding 8304 .8328
PR /*tag= c
PR /*note= "B3ds primer 99-27943-150.m1S"
PR misc_feature 8316 /bound_moiety= "Probe_99-27943-150"
PR /*tag= d
PR /*note= "Biallelic marker A1"

CC derived from the sequences of the invention may elicit a specific immune response. The peptide may also be used to detect hypersensitivity reactions of individuals exposed to *Mycobacterium tuberculosis* or *Mycobacterium Leprae*. The proteins and peptides may be affixed to solid supports to detect antibodies typical of hypersensitivity reactions, from a patient's sera. This sequence represents *Mycobacterium leprae* DNA of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html.

SQ

Sequence 42325 BP; 9673 A; 13128 C; 11330 G; 8194 T; 0 U; 0 Other;

Query Match

Best Local Similarity

Matches

21; Conservativeness

Oy

5 ACCCTCTGATCGAGAGTCGGCT 30

Db

688 ACCGACCTGACCTCCACGTGAGCT 713

Qy

5 ACCCTCTGATCGAGAGTCGGCT 30

Db

688 ACCGACCTGACCTCCACGTGAGCT 713

RESULT 15

ADM27081_10/c

Continuation (11 of 17) of ADM27081 from base 100001 (*Hyperthermophile Methanopyrus kandleri*

WP Sequence split into 17 fragments LOCUS ADM27081 Accession Adm27081

WP Fragment Name Begin End

WP ADM27081_00 1 110000

WP ADM27081_01 100001 210000

WP ADM27081_02 200001 310000

WP ADM27081_03 300001 410000

WP ADM27081_04 400001 510000

WP ADM27081_05 500001 610000

WP ADM27081_06 600001 710000

WP ADM27081_07 700001 810000

WP ADM27081_08 800001 910000

WP ADM27081_09 900001 1010000

WP ADM27081_10 1000001 1110000

WP ADM27081_11 1100001 1210000

WP ADM27081_12 1200001 1310000

WP ADM27081_13 1300001 1410000

WP ADM27081_14 1400001 1510000

WP ADM27081_15 1500001 1610000

WP ADM27081_16 1600001 1694968

Query Match

Best Local Similarity

Matches

21; Conservativeness

Oy

1 CTGGACCTCTGACTCGAGAGTC 26

Db

69684 CTTTGCCTCTGGACTCGAGAGTC 69659

Search completed: April 26, 2005, 11:11:26
Job time : 433 secs